



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

May 2026

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	280
Ammonia	mg/L	1.8
Calcium	mg/L	140
Chloride	mg/L	690
Electrical conductivity	$\mu\text{S}/\text{cm}$	4500
Fluoride	mg/L	0.5
Iron	mg/L	0.31
Magnesium	mg/L	110
Manganese	mg/L	0.28
Nitrogen	mg/L	20
pH	pH	8
Phosphorus	mg/L	5.6
Polycyclic aromatic hydrocarbons	mg/L	<0.1
Potassium	mg/L	390
Sodium	mg/L	410
Sulfate	mg/L	980
Total organic carbon	mg/L	61
Total petroleum hydrocarbons	mg/L	0.41
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	29

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2.5
Cadmium	mg/L	<0.1
Copper	mg/kg	0.0001
Electrical conductivity	$\mu\text{S}/\text{cm}$	7900
Iron	mg/L	0.11
Molybdenum	mg/L	0.15
Nickel	mg/L	0.01
pH	pH	8.4
Silver	mg/L	<1
Total suspended solids	mg/L	29

POINT 2 SPILLWAY Nil Discharge

Pollutant	Unit of measure	Concentration limit/Range	Result	Exceedances
Alkalinity	mg/L	-		
Ammonia	mg/L	0.9		
Calcium	mg/L	-		
Chloride	mg/L	-		
Electrical conductivity	µS/cm	-		
Fluoride	mg/L	-		
Iron	mg/L	-		
Magnesium	mg/L	-		
Manganese	mg/L	-		
Nitrogen	mg/L	-		
pH	pH	6.5-8.5		
Phosphorus	mg/L	-		
Polycyclic aromatic hydrocarbons	mg/L	-		
Potassium	mg/L	-		
Sodium	mg/L	-		
Sulfate	mg/L	-		
Total organic carbon	mg/L	-		
Total petroleum hydrocarbons	mg/L	-		
Total phenolics	mg/L	-		
Total suspended solids	mg/L	50		

POINT 4 SEDIMENT BASIN Nil Discharge

Pollutant	Unit of measure	Concentration limit/Range	Result	Exceedance
Ammonia	mg/L	-		
Electrical conductivity	µS/cm	-		
Nitrogen	mg/L	-		
pH	pH	6.5-8.5		
Total organic carbon	mg/L	-		
Total petroleum hydrocarbons	mg/L	-		
Total suspended solids	mg/L	50		